

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
6 May 2004 (06.05.2004)

PCT

(10) International Publication Number
WO 2004/037794 A1

(51) International Patent Classification⁷: C07D 231/38

(81) Designated States (national): AE, AG, AL, AM, AU, AZ, BA, BB, BR, BY, BZ, CA, CN, CO, CR, CU, DM, DZ, EC, EG, GD, GH, HR, ID, IL, IN, IS, JP, KG, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, NI, NO, NZ, OM, PG, PH, PL, RU, SC, SG, SY, TJ, TM, TN, TT, UA, US, UZ, VC, VN, YU, ZA.

(21) International Application Number: PCT/JP2003/013507

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(22) International Filing Date: 22 October 2003 (22.10.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 60/420,590 23 October 2002 (23.10.2002) US

(71) Applicant (for all designated States except US): BANYU PHARMACEUTICAL CO., LTD [JP/JP]; 2-3, Nihombashi Honcho 2-chome, Chou-ku, Tokyo 103-8416 (JP).

(72) Inventors; and

(75) Inventors/Applicants (for US only): MASE, Toshiaki [JP/JP]; 7-1, Wakamatsu-higashi 3-chome, Okazaki-shi, Aichi 444-0822 (JP). IIDA, Takehiko [JP/JP]; 9-20-301, Higashinogou, Hanecho, Okazaki-shi, AICHI, 444-0813 (JP). KADOWAKI, Chie [JP/JP]; 26-7-202, Hacchoukita-machi, Okazaki-shi, AICHI, 444-0924 (JP). KAWASAKI, Masashi [JP/JP]; 18-2-404, Myoudajihonmachi 1-chome, Okazaki-shi, AICHI 444-0860 (JP). ASAKAWA, Kenichi [JP/JP]; 5-101B, Iwamidou, Hosokawacho, Okazaki-shi, AICHI, 444-2149 (JP). HAGA, Yuji [JP/JP]; 28-8, Umenzo 2-chome, Tsukuba-shi, IBARAKI 305-0045 (JP).

(74) Agent: IWATANI Ryo; Sakurabashi Chiyoda Build., 5F, 1-27, Dojima 2-chome, Kita-ku, Osaka-shi, OSAKA 530-0003 (JP).

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AU, AZ, BA, BB, BR, BY, BZ, CA, CN, CO, CR, CU, DM, DZ, EC, EG, GD, GH, HR, ID, IL, IN, IS, JP, KG, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, NI, NO, NZ, OM, PG, PH, PL, RU, SC, SG, SY, TJ, TM, TN, TT, UA, UZ, VC, VN, YU, ZA, ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)
- of inventorship (Rule 4.17(iv)) for US only

Published:

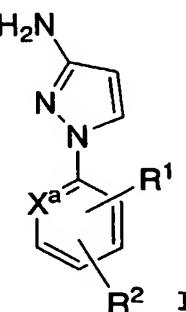
- with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

A1

(54) Title: PROCESS FOR MAKING PYRAZOLE COMPOUNDS

WO 2004/037794



(57) Abstract: This invention relates to a process for making pyrazole compounds of formula I.